FCC-TEST REPORT

REPORT NO.: 34325/3/400F

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FCC listed testlab acc. to Section 2.948 of the FCC - Rules

in compliance with the requirements of ANSI C63.4 - 1992

Product: Base Station 007

Product Class: Low Power Communication

Device Transmitter & Receiver

Model : 157903

Brand Name : IMC

Applicant: IMCADISA HK LTD

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LABORATORY - REPORT

APPLICANT: IMCADISA HK LTD

Suite 1210, 12/F, Chinachem Golden Plaza **ADDRESS:**

77 Mody Road Tsimshatsui East

Kowloon HONG KONG

DATE OF SAMPLE RECEIVED: 2003-06-06

DATE OF TESTING: 2003-07-07

DESCRIPTION OF SAMPLE:

Product: Base Station 007

Product class: Low Power Communication Device Transmitter & Receiver

Model number: 157903 Brand name: **IMC**

Additional model number: The following additional models and descriptions are also used:

Model number **Description**

2579 **Base Station Omega**

354173 **Base Station Power Rangers**

Rating: DC 9V ('6F22' Size Battery x 1)

Country of Origin: P.R. CHINA

Measurements to the relevant clauses of F.C.C. Rules and Regulations **INVESTIGATIONS REQUESTED:**

Part 15 Subpart C - Intentional Radiators and Subpart B - Unintentional

Radiators

RESULTS: See the attached test sheets

CONCLUSIONS From the measurement data obtained, the tested sample was considered

to have COMPLIED with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

Authorized Signature

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Remark: Purpose of those tests in this report is to provide the applicant with the necessary test data of their device for the submission to FCC with application for Equipment Authorization under the FCC Equipment Authorization Program. The tests themselves are not Approval Tests

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Summary of Test Results

Interference Radiation:

Test result:

Test data: See attached data sheet

Interference Voltage:

Test result: N.A. Test data: N.A.

Measurement of Emissions within Band Edges

Test result: O.K.

Test data: See attached data sheet

PHOTOGRAPH OF THE SAMPLE



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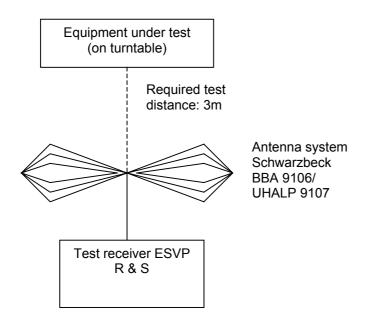
TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Remark		
Test Receiver	Rohde & Schwarz	ESH 3	863497/015	10KHz – 30MHz		
Test Receiver	Rohde & Schwarz	ESVP	860688/022	25MHz – 1,300 MHz		
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127		2 x 10A, 50Ω, 50μH 10KHz-30MHz		
Antenna System	Schwarzbeck	BBA 9106 / UHALP 9107		30MHz – 1000MHz		
Antenna Mast System	Schwarzbeck	AM9104		Max. 4 meters height		
Spectrum Analyzer with Q. Peak	Tektronix	2712	B023006	9KHz – 1.8GHz		
Interface for Spectrum 2712	Tektronix	TD3F14A				
Loop Antenna	Rohde & Schwarz	HFH2-Z2	871336/48	9KHz-30MHz		
Test Receiver	Rohde & Schwarz	ESH 3	892580/006	10KHz – 30MHz		
Test Receiver	Rohde & Schwarz	ESVP	863512/012	25MHz – 1,300 MHz		
Impulse Limiter	Rohde & Schwarz	ESH-3-Z2				
Antenna System	Schwarzbeck	BBA 9106 / UHALP 9107		30MHz – 1000MHz		
Signal Generator	Rohde & Schwarz	SWS 2	879113/42	100KHz – 1040 MHz		
Digital Multimeter	Tektronix	DM2510G	DM- 2510GTW10555	10KHz – 30MHz		
Turntable with Controller	Drehtisch	DT312		ф120 cm		

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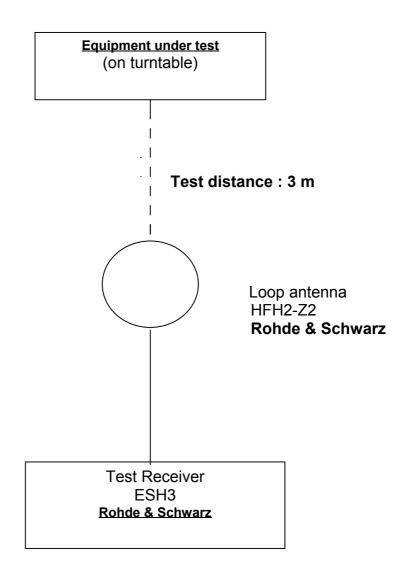
Radiated Emission Test Procedure (> 30MHz)



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Radiated Emission Test Procedure (9kHz - 30MHz)



Interference Radiation

Measurement of Radiated Emissions Acc: FCC Part 15 Subpart C

Test Equipment

Receiver: ESVP Rohde & Schwarz Antenna: Schwarzbeck BBA 9106

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and UHALP 9107

34325/3/400F 157903 Model: Applicant: IMCADISA HK LTD Ser.Nr.: Set under test: Base Station 007

Connected sets: Operating mode: Transmitter - Power "On"

IECC Ref:

	Frequency (MHz)	Horz. Rea dΒ(μ\	·	Ve	rt. Reading dΒ(μV)	Antenna Factor (dB)		loriz. Test Result dΒ(μV/m)	Vert. Test Result dB(µV/m)	Limit dB(µV/m)
Peak	49.86	5	4		58	11.7		66	70	100.0
Av.	49.86	5	3		57	11.7		65	69	80.0
Harm. 2	99.72	2	0	<	16	10.3		30	< 26	43.5
Harm. 3	149.58	< 1	6	<	16	15.0	<	31	< 31	43.5
Harm. 4	199.44	< 1	6	<	16	16.5	<	32	< 32	43.5
Harm. 5	249.3	< 1	6	<	16	17.7	<	34	< 34	46.0
Harm. 6	299.16	< 1	6	<	16	20.0	<	36	< 36	46.0
Harm. 7	349.02	< 1	6	<	16	17.4	<	33	< 33	46.0
Harm. 8	398.88	< 1	6	<	16	18.3	<	34	< 34	46.0
Harm. 9	448.74	< 1	6	<	16	19.0	<	35	< 35	46.0
Harm. 10	498.6	< 1	6	<	16	19.7	<	36	< 36	46.0
Harm. 11	548.46	< 1	6	<	16	20.2	<	36	< 36	46.0
Harm. 12	598.32	< 1	6	<	16	20.9	<	37	< 37	46.0
Harm. 13	648.18	< 1	6	<	16	21.6	<	38	< 38	46.0
Harm. 14	698.04	< 1	6	<	16	22.4	<	38	< 38	46.0
Harm. 15	747.9	< 1	6	<	16	23.0	<	39	< 39	46.0
Harm. 16	797.76	< 1	6	<	16	23.7	<	40	< 40	46.0
Harm. 17	847.62	< 1	6	<	16	24.3	<	40	< 40	46.0
Harm. 18	897.48	< 1	6	<	16	25.0	<	41	< 41	46.0
Harm. 19	947.34	< 1	6	<	16	25.7	<	42	< 42	46.0
Harm. 20	997.2	< 1	6	<	16	26.5	<	42	< 42	54.0

Remark: All frequencies in the required range have been scanned and only those

significant and representative readings are reported above. All emissions not reported above are all well below the limit.

Note: Unless otherwise indicated, the recorded readings are in quasi-peak values.

Unintentional Radiators

Measurement of Radiated Emissions Page: 10 of 14
Acc: FCC Part 15 Subpart B

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IECC Ref: 34325/3/400F Test Equipment

Model:157903Receiver: ESVP Rohde & SchwarzApplicant:IMCADISA HK LTDAntenna: Schwarzbeck BBA 9106

Ser.Nr.: and UHALP 9107

Set under test: Base Station 007

Connected sets: -

Operating mode: Receiver - Power "On"

Frequency (MHz)	Нс	orz. Reading dΒ(μV)	Vert. Reading dB(μV)		Antenna Factor (dB)	Horiz. Test Result dB(μV/m)		Vert. Test Result dB(µV/m)		Limit dB(μV/m)
30	<	16	<	16	18.4	٧	34.4	<	34.4	40.0
60	<	16	٧	16	8.4	٧	24.4		24.4	40.0
100	<	16	<	16	10.3	٧	26.3	<	26.3	43.5
300	<	16	<	16	20.0	٧	36.0	<	36.0	46.0
500	<	16	<	16	19.7	٧	35.7	<	35.7	46.0
700	<	16	٧	16	22.4	٧	38.4	٧	38.4	46.0
900	<	16	<	16	25.0	٧	41.0	<	41.0	46.0
1000	<	16	<	16	26.5	٧	42.5	<	42.5	54.0

Remark: All frequencies in the required range have been scanned and only those

significant and representative readings are reported above. All emissions not reported above are all well below the limit.

Note: Unless otherwise indicated, the recorded readings are in quasi-peak values.

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Cohere Plot at fundamental frequency

Sample location:

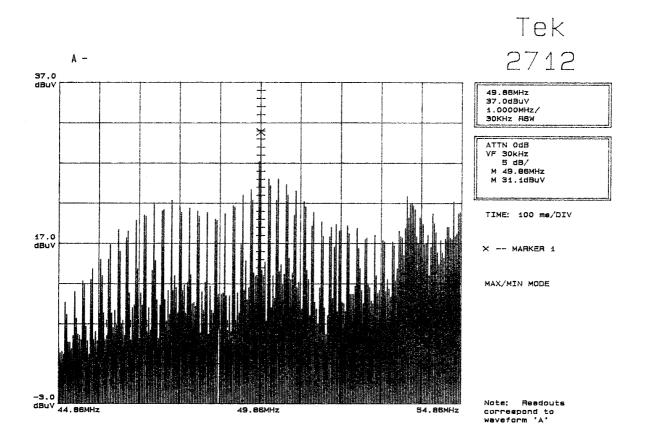
Less than 0.5m from the measuring antenna

Applied signal:

- 60dBm (non-modulated, 49.86 MHz)

Remark:

Self-cohere



All emissions observed complies with FCC limits.

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Notes for Radiation Measurement

1. Measurement facility:

Measurement facility located at Fanling (Hong Kong), placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules.

2. Distance between the EUT and measuring antenna:

3 meters.

3. Measuring instrumentations:

Rohde & Schwarz ESVP Test Receiver (20 - 1300 MHz) with a CISPR weighting QP detector, 6 dB bandwidth set at 120 KHz.

In the frequency range above 1000 MHz Spectrum Analyzer FMSM26 and Analyzer Display Unit FSA-D are used, bandwidth set at 100 kHz.

4. Measuring antenna:

Broad-band antenna for the frequency range 30 - 300 MHz and frequency range 300 - 1000 MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the Antenna Factor for measurement data. The antennas are capable of measuring both horizontal and vertical polarizations.

Loop antenna for the frequency range 9KHz – 30MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the measurement data. The center of the loop 1 m above the ground plane, positioned with its plane vertical at the specified distance and rotated about its vertical axis and placed horizontal for maximum response at each azimuth about the EUT.

In the frequnecy range above 1 GHz horn-antenna RGA 50/60 is used.

5. Frequency range scanned:

The frequency range 30 - 5000 MHz has been scanned. Readings of the highest emissions relating to the limit were reported as above.

6. Arrangement of EUT:

During the test, the sample was operated at rated supply voltage and arranged for maximum emissions. To find the maximum emission, the antenna was raised from 1 to 4 meters and was stopped at the maximum emission point.

7. Measuring Procedure:

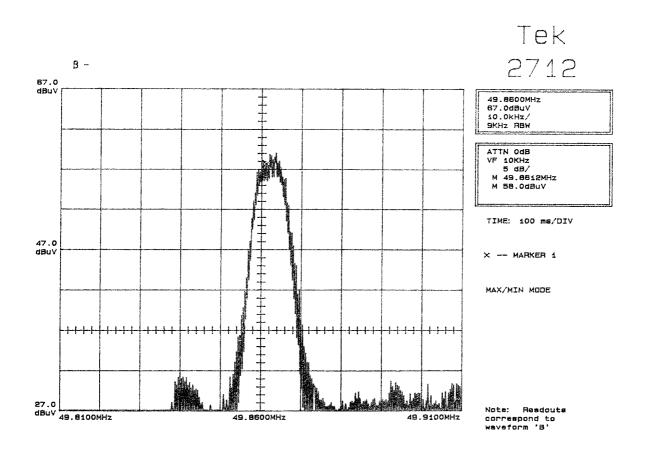
In accordance with the relevant sections of the American National Standards Institute (ANSI) C63.4-1992 'Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9KHz to 40GHz'.

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Measurement Data of Emissions within Band Edges



Result : The field strength of any emission within the operation band did not exceed 80 dB(μ V/m) for average value or 100 dB(μ V/m) for peak value. Refer to page 9 for the recorded value for the emission at the fundamental frequency.

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Notes for Measurement of Emissions within Band Edges

1. Measurement facility:

Measurement facility located at Fanling (Hong Kong) placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules.

2. Measuring instrumentations:

Spectrum Analyzer: Tektronix 2712

3. Frequency range scanned:

The frequency range acc. to FCC rules and regulations part 15 subpart C - Intentional Radiators.

4. Arrangement of EUT:

During the test, the sample was operated.

5. Measuring Procedure:

In accordance with the relevant sections of American National Standards Institute (ANSI) C63.4 - 1992 'Methods of Measurement od Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz'.